

IL'YUSHCHENKO, I.A.

Economy and foreign trade of Great Britain. Visnyk AN URSR 27 no.10:14-
27 O '56.
(MERA 10:1)
(Great Britain--Economic conditions) (Great Britain--Commerce)

16 / U.S.S.R., K. S.

USSR/Cultivated Plants - Fruits. Berries.

M

Abs Jour : Ref Zhur Biol., No 18, 1958, 82506

Author : Il'yushchenko, K.S., Varentsov, I.I.

Inst : All-Union Scientific Research Institute of the Canning
and Vegetable Drying Industry

Title : Local Canning Varieties of Quince.

Orig Pub : Referaty nauchn. rabot. Vses. n.-i. inst konservn. i
ovoshchesh. prom-sti, 1957, vyp. 4, 119-124

Abstract : A network of experimental stations and experimental
points of the Institute recommend for a temporary assort-
ment for different zones more than 54 varieties of which
43 are local varieties. A brief characteristic of them
is cited.

Card 1/1

ACC NR: AT7005248

SOURCE CODE: UR/2631/66/000/008/0079/0084

AUTHOR: Belyayeva, G. I.; Anfinogenov, A. I; Solomatin, V. Ye; Il'yushchenko, N. G.

ORG: none

TITLE: On the structure and properties of an electrolytic aluminum coating on molybdenum

SOURCE: AN SSSR. Ural'skiy filial. Institut elektrokhimii. Trudy, no. 8, 1966. Elektrokhimiya rasplavlennykh soleykh i tverdykh elektrolitov; fiziko-khimicheskiye svoystva elektrolitov i elektrodnnye protsessy (Electrochemistry of fused salts and solid electrolytes; physicochemical properties of electrolytes and electrodes processes), 79-84

TOPIC TAGS: metal plating, molybdenum, metal coating

ABSTRACT: Aluminum coatings deposited on molybdenum by electrolyzing a fused electrolyte of the composition (wt. %) BaCl₂ 73, NaF 11.5, AlF₃ 15.5 were studied by metallographic and x-ray structural analyses, by measuring the polarization of the molybdenum cathode, and by determining the high-temperature strength and oxidation resistance. The phase composition of the Al coating was studied as a function of the electrolysis conditions (current density and time). Electrolytic saturation of the molybdenum surface with aluminum was found to lead to the formation of two- and three-layer coatings, depending upon the electrolysis conditions. To protect molybdenum from high-temperature oxidation, an aluminum coating of the composition Al, MoAl₁₂,

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ACC NR: AT7005248

Mo_3Al_8 is recommended. A coating of this composition can be obtained at 900° and current densities of 0.1-0.15 A/cm². Up to 30 min is necessary for the formation of a coating 50 μ thick. Orig. art. has: 5 figures and 2 tables.

SUB CODE: 11 / SUBM DATE: none / ORIG REP: 005 / OTH REP: 013

cont. 2/2

ANFINOGENOV, A.I.; SMIRNOV, M.V.; ILYUSHCHENKO, N.O.

Electrolytic deposition of beryllium on copper in fused salts.
Trudy Inst.elektrokhim. UFAN SSSR no. 4:47-53 '63. (MIRA 17:6)

31671
S/631/60/000/001/008/014
B117/B147

54700

AUTHORS: Ivanovskiy, L. Ye., Ilyushchenko, N. G., Zyuzev, V. L.,
Plekhanov, A. F.

TITLE: Oxychlorides of rare earths of lowest valencies

SOURCE: Elektrokhimiya rasplavlenykh soleyakh i tverdykh elektrolitov,
no. 1, 1960, 55-60

TEXT: The interaction of oxygen and rare earth metals with chloride melts of rare earths was studied. In the first series of experiments, the authors used a misch metal (% by weight: 22.5 La, 53.0 Ce, 4.53 Pr, and 16.3 Nd) obtained by electrolysis, and a chloride mixture (% by weight: 26 La, 53.9 Ce, 4.85 Pr, 11.42 Nd) obtained by chlorination of oxides of rare earths with gaseous chlorine in the presence of carbon. The result was a deposit of oxychlorides of lowest valency: Me_2OCl_2 , where Me stands

for La, Ce, Pr, and Nd. This mixture is slowly hydrolyzed in water to give hydrates of highest valency. When boiling, decomposition proceeds rather quickly. During heating, the product readily reacts with acids, particularly

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S/631/60/000/001/008/014
B117/B147

Oxychlorides of rare earths of lowest ...

nitric acid. It oxidizes easily at 300-400°C forming mixtures of oxides of rare earths at higher temperatures. In another series of experiments, the reaction of oxygen with chlorides of rare earths in an open bath at 580 - 600°C was studied. A graphite vessel was used as electrolyzer and anode, and molybdenum rods were used as cathodes. The electrolyte was a mixture of chlorides of rare earths and potassium chloride (50% MeCl_3 and KCl). The amount of lowest oxychlorides formed in all experiments depended on the amount of products in the bath obtained by decomposition of salts under the action of oxygen and moisture. Finally, the misch metal in the potassium chloride melt was anodically dissolved at 850°C in an open and a closed bath. The authors always found oxychlorides of lowest valencies with a ratio equal to that of initial substances. Summary: In the case of interaction between oxygen, chloride melts of rare earths, and misch metal mixtures of low-valency oxychlorides of rare earths were obtained. The summational reaction can be written down:
 $4\text{MeCl}_3 + 3\text{O}_2 + 8\text{Me} \rightarrow 6\text{Me}_2\text{OCl}_2$. The formation of oxychlorides on the cathode may be explained by the formation of Me_2OCl_4 soluble in the melt by

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Oxychlorides of rare earths of lowest ...

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8/631/60/000/001/008/014
B117/B147

decomposition of salts. The formation of $M_2OCl_2^{++}$, whose discharge on the cathode yields M_2OCl_2 , is well possible. At the same time, direct reaction of decomposition products with the metal deposited on the cathode is also possible. Bivalent chlorides of rare earths are formed in the melt due to anodic dissolution of the misch metal. Their reaction with oxygen also yields oxychlorides of the same composition. There are 4 figures, 2 tables, and 5 references: 4 Soviet and 1 non-Soviet.

X

Card 3/3

ANFINGENOV, A.I.; BELYAYEVA, G.I.; SMIRNOV, M.V.; IL'INICHENKO, N.G.

Structure and phase composition of beryllium coating on
copper obtained by the electrolysis of fused salts. Trudy
Inst. elektrokhim. UFAN SSSR no. 4:55-66 '63. (MIRA 17:6)

ACCESSION NR: AT4008733

S/2631/63/000/004/0055/0066

AUTHOR: Anfinogenov, A. I.; Belyayeva, G. I.; Smirnov, M. V.; Ilyushchenko, N. G.

TITLE: Structure and phase composition of beryllium coatings deposited on copper
in fused salt electrolytesSOURCE: AN SSSR. Ural'skly filial. Institut elektrokhimi. Trudy*, no. 4, 1963.
Elektrokhimiya rasplavlennykh solevkh i tverdykh elektrolitov, 55-66TOPIC TAGS: beryllium coating, beryllium plating, beryllium plated copper, coat-
ing structure, coating phase composition, fused salt electrolysis, fused salt,
beryllium electrodeposition

ABSTRACT: Rates of Be deposition (i.e. cathode current density) and mutual diffusion of Be and Cu (i.e. temperature and duration of electrolysis) were studied in relation to their effects on the structure and phase composition of coatings deposited on a cathode during electrolysis in fused salts. Be was deposited on Cu cathodes in a fused electrolyte (eutectic mixture of KCl + NaCl + 16% BeCl_2 by weight at temperatures of 710, 750, 800 and 835°C, current densities of 0.004, 0.01, 0.02 and 0.04 a/cm² and exposures of 1, 2, 4, 6 and 8 hours. The electrolytic cell was described in AN SSSR, Ural'skly filial. Institut elektrokhimi. Trudy*, no. 4, 1963, 47-53. The results tabulated in the original and shown

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ACCESSION NR: AT4008733

In Figs. 1, 2, 3 and 4 in the Enclosure indicate that cathodic deposition of Be on Cu is accompanied by the formation of deposits consisting of one or more phases. Structure of the deposits is determined by current density, temperature and duration of the electrolytic process. It was also demonstrated that such conditions of the process promote the most rapid formation and accumulation of the β -phase. Microstructure of the BeCu coating is shown on several microphotographs for the α , β and γ phases. G. V. Burov, staff member of the Institute, performed the structural x-ray analysis. G. V. Chentsovaya and L. P. Tomilovaya, other members of the Institute, performed the spectral analysis. Orig. art. has: 2 tables, 4 graphs, 7 illustrations.

ASSOCIATION: Institut Elektrokhimii, Uralskii filial AN SSSR (Institute of Electrochemistry, Ural branch AN SSSR)

SUBMITTED: 00

DATE ACQ: 25Jan64

ENCL: 06

SUB CODE: ML, MA

NO REF SOV: 011

OTHER: 002

Card 2/2

ACC NR: AR6035432

SOURCE CODE: "W/0275/66/000/008/1004/B06"

AUTHOR: Belyayeva, G. I.; Anfinogenov, A. I.; Solomatin, V. Ye, Ilyushchenko, N. G.

TITLE: Structure and properties of an electrolytic aluminum coating on molybdenum

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 8E+10

REF SOURCE: Tr. In-ta elektrokhimii. Ural'skiy fil. AN SSSR, vyp. 8, 1966, 79-84

TOPIC TAGS: molybdenum, electrolytic deposition, aluminum plating, metal coating, surface hardness

ABSTRACT: The authors present results of investigations of the structure and properties of aluminum coatings on molybdenum, produced by electrolysis of molten salts. For the alitiration of the molybdenum (sintered rod), an electrolyte was used with composition (% by weight) BaCl₂ 73, NaF 11.5, AlF₃ 15.5. The surface of the sample was polished before the alitiration. The structure and the composition of the obtained coating were investigated metallographically and by x ray structure methods. The microhardness distribution over the depth of the coating was measured with a PMT-3 instrument with a 20 gram load. The tests for heat endurance were made at 1200° in air. It is shown that the electrolytic saturation of the molybdenum surface with aluminum leads to formation of two- and three-layer coatings, depending on the electrolysis conditions; to protect the molybdenum against the high-temperature oxidation, aluminum coatings with compositions Al, MoAl₁₂, and Mo₆Al₃ are recommended; a coating of a given composition can be obtained at a temperature of 900°, current density 0.1

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UDC: 621.357.7:669.718

ACC NR: AR6035432

- 0.15 g/dm². Up to thirty minutes are required to produce a coating of 50 μ thickness. [Translation of abstract]

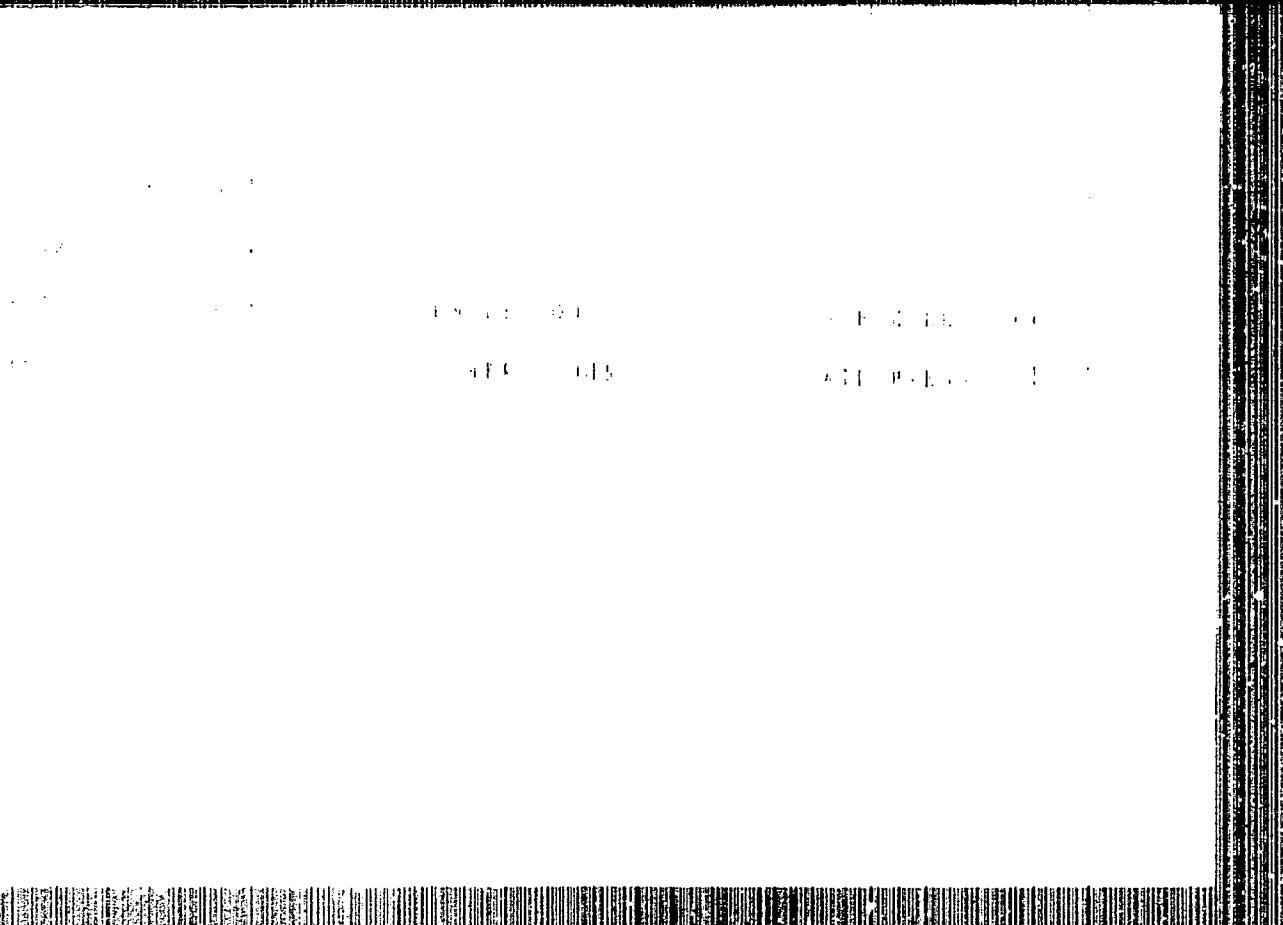
SUB CODE: 13, 07

Card 2/2

the first time in the history of the world, the people of the United States have been compelled to go to war to defend their country against a foreign nation.

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000618520020-7



APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000618520020-7"

SMIRNOV, M.V.; ILYUSHCHENKO, N.G.

Hydrolysis of thorium fluoride in molten salts. Izv.vest.fil. Ak
SSSR no.4/5:114-118 '57. (MZhN 10:9)

1. Ural'skiy filial Akademii nauk SSSR.
(Thorium fluorides) (Alkali metal chlorides) (Hydrolysis)

ANFINOGENOV, A.I.; SMIRNOV, M.V.; ILYUSHCHENKO, N.G.; KELYAKOVA, G.I.

Study of the thermodynamics of the beryllium - copper system
by the electromotive force method. Trudy Inst. elektrokhim.
UFAN / SSR no.3:83-100 '62. (MIRA 16:6)

(Beryllium-copper alloys—Thermodynamic properties)
(Electromotive force)

BELYAYEVA, G.I.; SHCHETNIKOV, Ye.N.; ILYUSHCHENKO, N.O.

Possibility of obtaining heat-resistant coatings on molybdenum
by the use of the electrolytic method. Trudy Inst. elektrokhim.
UFAN SSSR no.3:101-110 '62. (MIRA 16:6)

(Heat resistant alloys) (Molybdenum)
(Electrolysis)

LL VYSHCHENKO, IV. S.

USSR/Physical Chemistry - Thermodynamics, Thermochemistry, Equilibria,
Physical-Chemical Analysis, Phase Transitions.

B-8

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3796.

Author : M.V. Smirnov, N.G. Il'yushchenko, S.P. Detkov, L.Ye. Ivanovskiy.

Inst :

Title : Solubility of Thorium in Liquid Zinc.

Orig Pub: Zh. fiz. khimii, 1957, 31, No 5, 1013-1018.

Abstract: Alloys of Zn with Th containing up to 25% by weight of Th were investigated by the methods of electron-photographic, metallographic and thermal analyses. The structural component alloys are practically pure Zn and the metallic compound $\text{Th}_2\text{Zn}_{17}$ (I), the composition of which has been established by chemical analysis. The solubility of Th in Zn was determined, it is $3.55 \cdot 10^{-3}$ % at 419.4° and 1.44% at 907° . It was found that the isobaric potential changes at the formation of I from the elements, and the activities with activity factors of Th in the binary alloy I

Card : 1/2

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Chern Branch AS USSR

Sverdlovsk

IL'YUSHCHENKO, N.P.

Arsenic as a geochemical indicator in prospecting for copper-skarn
ore bodies. Izv. AN Kazakh. SSR. Ser. geol. 22 no.1:85-89 Ja-F '65.

(MIRA 18:6)

1. Institut geologicheskikh nauk im. K.I. Satpayeva, g. Alma-Ata.

KULKASHEV, N.T.; IL'YUSHCHENKO, N.I.; POMICHENOV, V.I.

Structural control of mineralization in the Sajuk deposit.
Izv. AN Kazakh. SSR Ser. geol. 22 no. 6:35-47 N-D '65
(MIRA 1981)

I. Institut geologicheskikh nauk imeni K.I. Satpayeva, Alma-Ata.

S/169/62/000/007/060/149
D228/D307

AUTHORS: Ignat'yeva, T. S. and Il'yushchenko, N. P.

TITLE: Experimental study of the forms of rare metal replacement in pegmatite veins by applying the micromagnetic survey method of increased precision

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 7, 1962, 29-30,
abstract 7A194 (Tr. Vses. n.-i. in-ta metodiki i
tekhn. razvedki, sb. 3, 1961, 285-292)

TEXT: Sections of three deposits were surveyed micromagnetically in order to study the microfissuring of pegmatite veins. The statistical processing of the measurement results provided for the construction of roses of the ΔZ isodynamic line directions. In the first deposit the rose diagram exposes no prevalent isoline directions. This is due to the complexity of the tectonic conditions and to the existence of diverse fissuring direction. There are four clearest isoline directions in the second deposit. Two are connected with the general direction of the vein's strike; the other two

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Experimental study of ...

S/169/62/000/007/060/149
D228/D307

are connected with the orientation of the rare-metal replacement sections, which extend along the boundaries of structural mineralogic zones. In the third deposit, characterized by the highest intensity of metasomatic replacement processes, only one prevalent isodynamic line direction is actually displayed; it coincides with the vein's strike. Such a picture compels one to suppose that there is a considerable degree of regulation in the orientation of fissures, assembled in the independent zone of metasomatic replacement. The great opportunities of micromagnetic surveying are noted for the study of the microfissuring of pegmatite veins and its related rare-metal replacement pattern. [Abstracter's note: Complete translation.] ✓

Card 2/2

IL'YUSHCHENKO, T.A.

Social and political life at the Institute of Forestry in the
period 1900-1907 '61.
(Leningrad—Students) (Leningrad—History)
(MIRA 1642)

ILYUSHCHENKO, V.; SHLYGIN, A.

Effect of arsenic on catalytic, adsorptive, and electrochemical properties of platinized platinum. Izv.AN Kazakh.SSR Ser.khim. no.3:
12-23 '49. (MLRA 9:8)

(Arsenic) (Electrodes, Platinum)

ILYUSHCHENKO, V., SHLYGIN, A.

Effect of atomic mercury on the adsorptivity and catalytic activity
of platinized platinum. Izv. AN Kazakh. SSR Ser. Khim. no. 3:24-32 '49.
(MLRA 9:3)

(Mercury) (Electrodes, Platinum)

I LYUSHCHENKO, V.M.

5(2)

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PHASE I BOOK EXPLOITATION

SOV/1699

Akademiya nauk Kazakhskoy SSR. Institut khimicheskikh nauk

Issledovaniya po elektrokhimi i vodnykh rastvorov i amalgamam
metallurgii (Research on the Electrochemistry of Water Solutions, Fusions
and Amalgam Metallurgy) Alma-Ata, Izd-vo AN Kas. SSR, 1958. 122 p.
(Series: Its: Trudy, t. 3) 1,300 copies printed.

Ed.: V.V. Aleksandriyskiy; Tech. ed.: Z.P. Borokina; Editorial Board of Series:
I.I. Zabotin, V.M. Ilyushchenko, G.Z. Kir'yakov (Deputy Resp. Ed.),
M.T. Kozlovskiy, (Resp. Ed.) and L.N. Sheludyakov.

PURPOSE: This book is intended for scientists and engineers in the electrochemical
and nonferrous metal industries.

COVERAGE: This collection contains 14 reports by the Laboratories for Analytical
Chemistry and Electrochemistry attached to the Institute of Chemical Sciences,
Academy of Sciences, Kazakhstan Republic. The method of obtaining
thallium from lead powder, the electrolysis of sulfate solutions of zinc and
the impoverishment of waste slag during nickel production are described. The
majority of articles have a practical nature and deal with problems of

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Research on the Electrochemistry of Water Solutions (Cont.) Sov/1699

developing and perfecting new electrochemical methods for the production of nonferrous metals.

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Kozlovskiy, M.T., M.V. Nosok, S.P. Bulman, P.I. Zabotin, and V.M. Ilyushchenko. Water Lixiviation of Thallium From Sinter Bars of the Chinkent Lead Plant

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Kozlovskiy, M.T.; S.P. Bulman, M.V. Nosok, V.M. Ilyushchenko, and P.I. Zabotin. Displacement of Thallium From Industrial Solutions by Zinc Amalgam

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Kozlovskiy, M.T., S.P. Bulman, M.V. Nosok, V.M. Ilyushchenko, P.I. Zabotin, and A.I. Zebreva. Electrolytic Decomposition of Amalgam During the Production of Thallium From Powders of the Chinkent Lead Plant

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Research on the Electrochemistry of Water Solutions (Cont.) SOV/1699

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Research on the Electrochemistry of Water Solutions (Cont.) 80V/1699

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Card 4/4

ILYUSHCHENKO, V.M.; KOZLOVSKII, M.T.

Separation of cadmium and indium by anode oxidation of mixed amalgams. Izv. AN Kazakh. SSR. Ser. Khim. no.1:23-28 '58.

(MIRA 12:2)

(Cadmium--Analysis) (Indium--Analysis)
(Oxidation)

136-1-7/20

AUTHORS: Kozlovskiy, M.T., Zabotin, P.I., Ilyushchenko, V.M.,
Bukhman, S.P., Nosek, M.V., Sergiyenko, V.Ia. and Malkin,
Ya.Z.

TITLE: Use of an Amalgam Method for Extracting Thallium from
Chimkent Lead Works Dust (Primeneniye amalgamnogo
metoda k izvlecheniyu talliya iz pyley chimkentskogo
svintsovogo zavoda)

PERIODICAL: Tsvetnye Metally, 1958, No.1, pp. 30 - 41 (USSR).

ABSTRACT: The work described was based on theoretical and applied
work on amalgam methods of separating and producing metals at
the Chemical-sciences Institute of the Ac.Sc. KazakSSR
(Institut khimicheskikh nauk AN KazSSR) and the Kazakhsk State
University imeni S.M. Kirov (Kazakhskiy gosudarstvennyy
universitet im. S.M. Kirova) under the direction of M.T. Kos-
lovskiy (Refs. 1-8). The following participated in the work:
A. Zebreva, Candidate of Chemical Sciences, V. Gladyshev of the
University and M. Levanov, V. Prachev, Ye. Rubanova,
M. Shalaginova, G. Nosov and Yu. Stolyarov of the Chimkentsk
Lead Works. K. Simakov and L. Ushkov of the Works helped to
organise the semi full-scale trials and I. Yudevich and
N. Karpenko analysed spectroscopically for thallium and
N. Popova did chemical and polarographic analyses with O. Orsa

Card1/3

136-1-7/20

· Use of an Amalgam Method for Extracting Thallium from Chimkent Lead Works Dust

of the Chemical-sciences Institute of the An KazSSR. Sintering-dust analyses for different periods are tabulated (Table 1) and laboratory-scale experiments with the dust are described. Here, roasting of 20-25 kg batches was carried out at 400 - 500 °C, showing (Fig.1) that an appreciable part of the sulphide sulphur and thallium is eliminated within the first hour at 400 °C. Four-fold leaching of the dust (two 250-g samples) with water at 80 - 90 °C showed (Table 3) that 80-90% of the thallium was extracted in the water, the extraction increasing with temperature. Cementation of thallium with zinc amalgam was carried out on the acidulated extract which was continuously circulated (Fig.3): the results (Table 4) showed that 98-99% extraction of thallium from the solution could be obtained. It was shown that the amalgam (originally 0.36 - 0.40 g/litre Zn, 0.127 g/litre Cd and 108 mg/litre Tl) could be decomposed by anodic oxidation with special electrolytes at current densities of 100 - 50 A/m², the density being gradually reduced as the appropriate metal was removed from the amalgam. The flow-sheet based on the laboratory results (Fig.4) was put into practice in a larger scale plant (Fig.5) at the Chimkensk Works, where it

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136-1-7/20

Use of an Amalgam Method for Extracting Thallium from Chimkent
Lead Works Dust

treated several tons of dust from April to October, 1956 and was used for balance experiments in October of that year. The article gives details of the different stages and balances for the different metals. These show that with the proposed method pure metallic thallium can be obtained with a yield of 65%, about 30% being in returns and 5% being lost. An editorial note invites discussion on the amalgam method. There are 5 figures, 13 tables and 10 Russian references.

ASSOCIATION: Institute of Chemical Sciences of the Ac. of Sc. KazSSR
(Institut khimicheskikh nauk AN KazSSR) and
Chimkent Lead Works (Chimkentskiy svintsovyy zavod)

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Card 3/3

KOZLOVSKIY, M.T.; NOSEK, M.V.; BUKHMAN, S.P.; ZABOTIN, P.I.;
ILYUSHCHENKO, V.M.

Water leaching of thallium from agglomeration dust at the
Chemkent lead smelting and refining works. Trudy Inst. khim.
nauk AN Kazakh. SSR 3:5-14 '58. (MIRA 12:3)
(Thallium--Metallurgy)

KOZLOVSKIY, M.T.; BUKHMAN, S.P.; ILYUSHCHENKO, V.M.; ZABOTIN, P.I.

Cementation of thallium from industrial solutions by zinc amalgam.
Trudy Inst. khim. nauk AN Kazakh. SSR 3:15-19 '58.

(Thallium--Metallurgy) (Amalgamation)
(MIRA 12:3)

KOSLOVSKIY, M.T.; ILYUSHCHENKO, V.M.; ZABOTIN, P.I.; HORNE, M.V.;
BUKHMAR, S.P.; ZEREEVA, A.T.

Electrolytic decomposition of amalgams during production of
thallium from dusts at the Chinkapit lead smelting and refining
works. Trudy Inst. khim. nauk AN Kazakh. SSR 3:20-26 '58.
(MIRA 12:3)

(Amalgamation) (Thallium--Electrometallurgy)

KOSEK, M.V.; ILYUSHCHENKO, V.M.; KOZLOVSKII, M.T.

Investigation of the potentials of amalgams of some metals during
anodic oxidation in a sulfate - ammonia electrolyte. Trudy Inst.
khim. nauk AN Kazakh. SSR 3:29-38 '58. (MIRA 12:3)
(Amalgams) (Oxidation)

KOZLOVSKIY, M.T.; ZABOTIN, P.I.; LLYUSHCHENKO, V.M.; BUKHMAN, S.P.;
NOSIK, M.V.; SERGIYENKO, V.Ya.; MALKIN, Ya.Z.

Using the amalgamation method for the recovery of thallium from
dusts of the Chinkent Lead Refinery. TSvet.met. 31 no.1:30-41
Ja '58. (MIRA 11:2)

1. Institut khimicheskikh nauk AN KazSSR i Chinkentskiy svintsovyy
zavod.

(Thallium) (Chinkent--Lead ore)

VOROB'YEVA, G.F.; ILYUSHCHENKO, V.M.

Separation of antimony and indium by the anodic oxidation of mixed amalgams. Izv. Akad. Kazakh. SSR. Ser. khim. no.1:39-43 "59.

(MIRA 13:6)

(Indium-Mercury alloys--Analysis)
(Antimony-Mercury alloys--Analysis)

GLADYSHEV, V.P.; ILYUSHCHENKO, V.M.; KOZLOVSKIY, M.T.

Causes of sludge formation in the preparation of thallium by the amalgam method. Izv. AN Kazakh. SSR Ser. khim. no. 2:67-74 '60.
(MIRA 14:5)

(Thallium)

ILYUSHCHENKO, V.M.; AABOTIN, P.I.; KOZLOVSKIY, M.T.; PORUBAYEV, V.P.

Oxidation potentials of lead and thallium amalgams in alkaline
solutions. Trudy Inst.khim.nauk AN Kazakh.SSR 6:54-60 '60.
(MIRA 14:4)

(Amalgams)

(Electromotive force)

ILYUSHCHENKO, V.M.; KOZLOVSKIY, M.T.; PORUBAYEV, V.P.

Use of trilon B in thallium refining. Trudy Inst. Khim. nauk AN Kazakh.
SSR 6:61-66 '60. (MIRA 14, '4)
(Thallium) (Acetic acid)

ILYUSHCHENKO, V.M.; KOZLOVSKIY, M.T.

Cementation of copper-cadmium solutions with zinc amalgam.
Izv.AN Kazakh. SSR. Ser.khim. no.1:47-51 '61. (MIRA 16:7)
(Intermetallic compounds) (Cementation (Metallurgy))

KIR'YAKOV, Gleb Zakharovich; PONOMAREV, V.D., akademik, retsenzent;
SONGINA, O.A., doktor khim. nauk, retsenzent; KABANOV,
B.N., doktor khim. nauk, retsenzent; KUSHNIKOV, Yu.A.,
kand. khim. nauk, retsenzent; ILYUSHCHENKO, V.M., kand.
khim. nauk, retsenzent; KOZIN, L.F., kand. khim. nauk,
otv. red.; IVANOVA, E.I., red.

[Electrode processes in sulfuric acid solutions of zinc]
Elektrodyne protsessy v sernokislykh rastvorakh tsinka.
Alma-Ata, Nauka, 1964. 186 p. (MIRA 17:12)

1. Akademiya nauk Kaz.SSR (for Ponomarev).

PODGAYETSKIY, V.V.; ILYUSHENKO, V.M.

Effect of alkali metal weldments on the porosity of joints
welded under flux. Avtom. svar. 17 no.10:26-30 0 '66
(MIRA 18:1)

1. Institut elektrosvarki imeni Ye.O.Patona AN UkrSSR.

ILYUSHCHENKO, V.N.

Indicator burner. Zashch. rast. ot vred. i bol. 9 no.2:
32 '64. (MIRA 17:6)

1. Starshiy agronom Zakarpatskogo fumigatsionnogo otryada.

ILYUSHCHENKO, V.N.

Reconstruction of the ONK sprayer. Zashch. rast. ot vred. i
bol. 7 no.10:18-19 O '62. (MIRA 16:6)

1. Agronom po zashchite rasteniy Uzhgorodskogo rayona.
(Spraying and dusting equipment.)

I.YUSHCHENKO, V.N.

Fumigation in railroad cars. Bushch. rast. of wrekt. I bel. 9
no. 6t44 '64 (M.R.A. 27c7)

1. Starshiy agronom Zakarpatskogo flugitatornogo otryadu.

ILYUSHCHEKO, V.N., agronom; MOLNIJA, G.B., tekhnik

Determining the effectiveness of fumigation. Zashch. rast. ot vred.
i bol. 9 no.12:41 '64. (MIRA 18:4)

1. Zakarpatskiy fumigatsionnyy otryad,

ILYUSHCHENKO, Ya.S.

Results of the work of the No.2 Bakery of the Donetsik Baking Combine.
Khar. prom. no.3:18-20 J1-S '65. (MIEM 18:9)

SOV/137-58-11-23453

Translation from: Referativnyy zhurnal. Metallurgiya. 1958, Nr 11, p 230 (USSR)

AUTHORS: Kiselev, G. I., Ilyushchenkov, M. A.

TITLE: Physico-mechanical Properties of Low-carbon Steels (Fiziko-mekhanicheskiye svoystva malouglerosistykh stalej)

PERIODICAL: V sb.: Issled. po fiz. tverdogo tela. Moscow, AN SSSR, 1957,
pp 262-272

ABSTRACT: Mechanical properties (α_k at temperatures ranging from +25 to -70°C, σ_b , δ , ψ , and H_B before and after natural aging), electrical conductivity, and magnetic characteristics of three smeltings of low-carbon steel produced by the method of direct reduction in a special electrical furnace, were studied. The steel contained 0.038-0.10% C, 0.17-0.34% Mn, traces to 0.08% Si, 0.01-0.018% P, and 0.031% S. The tests were carried out on specimens which had not been treated after hot rolling, specimens which had been annealed at various temperatures, and specimens which had been quenched and tempered. It is established that mechanical properties of steels produced by the method of direct reduction of iron from ore with

Card 1/2

SOV/137-58-11-23453

Physico-mechanical Properties of Low-carbon Steels

subsequent refining by means of heat treatment approach the properties of commercially pure iron and possess characteristics that are superior to those of Armco iron. With regard to electrical and magnetic properties, as well as the effects of aging, the steels investigated do not differ from standard steels. Bibliography: 16 references.

T. F.

Card 2/2

SAVITSKIY, K.V.; ZAGREBENNIKOVA, M.P.; ILYUSHCHENKOV, M.A.

Thermal stability at various friction conditions of cold hardening
of surface layers of metal. Izv. vys. ucheb. nazv.; fiz. no.3:
155-157 '58. (MIRA 11:9)

1. Sibirs'kiy fiziko-tekhnicheskiy institut pri Tomskom gosuni-
versitete imeni V.V. Kuybyshova.
(Steel--Hardening)

ILYUSHCHENKOV, M.A.

SOW/123-59-15-58959

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 15, p 17 (USSR)

AUTHORS: Savitskiy, K.V., Ilyushchenkov, M.A.

TITLE: Investigations of the Temperature Resistance of the Hardened Surface Layers of Metals Undergoing Friction Stress at Various Normal Loads

PERIODICAL: Uch. zap. Tomskiy un-t, 1958, Nr 32, pp 182 - 187

ABSTRACTS: Tests were made with specimens of low-carbon steel and commercial copper. The data obtained show that changes in the state of the outer layers of rubbing bodies are taking place on account of an increase of pressure (load). The existence of a close relation between the magnitude of residual deformation and hardness permits one to make a conclusion, on the basis of measurements of the microhardness, concerning the qualitative differences of stress deformation, resulting from a change in the friction conditions. It can be presumed that an increase of pressure on the contact surface of rubbing bodies leads to a redistribution of deformations

Card 1/2

30V/123-59-15-58959

Investigations of the Temperature Resistance of the Hardened Surface Layers of Metals
Undergoing Friction Stress at Various Normal Loads

directed to their higher temperature resistance. In this connection a preliminary treatment of the friction surfaces at as great loads as possible may serve as an additional technological factor of the hardening of the outer layers of rubbing bodies.

B.A.M.

Card 2/2

28 (5)

AUTHORS: Zagrebennikova, M. P., Ilyushchenkov, M. A., ⁰⁵⁷⁴⁹ Sov/32-25-10-38/63
Sukharina, N. N.

TITLE: Arrangement for the Compression-testing of Materials at Negative Temperatures

PERIODICAL: Zavodskaya laboratoriya, 1959, Vol 25, Nr 10, pp 1247 - 1248
(USSR)

ABSTRACT: The devices at present used for the compression-testing of materials at low temperatures have several disadvantages: Thus, the coolant can be poured on to the sample only at room temperature or at its boiling point temperature (Refs 1-3), so that only certain coolants may be used (Refs 2,3); or there is no possibility of using thermocouples for measuring the temperature of the sample (Ref 4) etc. A device was constructed in which these disadvantages are eliminated (Figure). It has a container for the cooling fluid, which is in form of a case, which contains the sample and the pressure piston. The small table upon which the sample is placed, and the piston are made from heat-conducting steel of the type R18. The thermocouple used for measuring the temperature of the sample is inserted into the table from below.

Card 1/2

Arrangement for the Compression-testing of Materials at Negative Temperatures 05748
S07/32-25-10-38/65

As the sample does not come into contact with the coolant, it is possible to use liquid air enriched with oxygen (as produced in devices of the type SK-05). It is possible to produce a stable temperature of down to -100° , and after a slight alteration of the device also down to -180° . There are 1 figure and 4 Soviet references.

ASSOCIATION: Sibirskiy fiziko-tehnicheskiy nauchno-issledovatel'skiy institut (Siberian Physico-technical Scientific Research Institute)

Card 2/2

SAVITSKIY, K.V., doktor fiz.-matem.nauk, prof.; ILYUSHCHENKOV, M.A.;
BYKONYA, A.F.; BURNAKOV, K.K.

Investigation of the abrasive capacity of grinding wheels with
a ceramic binder. Vest.mashinostr. 43 no.5:40-62 My '63.
(MIRA 16:5)

(Grinding wheels--Testing)

ILYUSHCHENKOV, M.A.; SAVITSKIY, K.V.; KASHCHEYEV, V.N.

Increasing the abrasive capacity of the corundum and carborundum
grain by vacuum thermal treatment. Izv. vys. ucheb. zav.; fiz., 8
(MIRA 18:3)
no.1:178-179 '65.

1. Sibirskiy fiziko-tehnicheskiy institut imeni akademika
Kuznetsova.

L 8910-66. EXP(c)/ENT(n)/EIC/EMG(m)/T/EXP(t)/EXP(b) LIP(n) 10/10/41/AM
ACC N# AP5027595 UR/0145/65/000/009/0137/0142

AUTHOR: Savitskiy, K. V. (Doctor of Physico-mathematical Sciences,
Professor); Ilyushchenko, M. A. (Aspirant); Kargopolova, T. D.
(Aspirant); Bykova, A. F. (Aspirant)

ORG: Siberian Technico-Physical Institute (Sibirskiy fiziko-
tekhnicheskiy institut)

TITLE: Vacuum heat treatment of high-melting, high-hardness chemical
compounds. 1. Silicon carbide

SOURCE: IVUZ. Mashinostroyeniye, no. 9, 1965, 137-142

TOPIC TAGS: heat treatment, silicon carbide, crystal property,
~~CRYSTALLOGRAPHY, SOLID MECHANICAL PROPERTY~~

ABSTRACT: The article examines the effect of temperature and of the
duration of vacuum annealing on the strength properties of technical
grade silicon carbide. Crystals of black silicon carbide with a
particle size of 1 and 2 mm were prepared. The shear fracture
strength of the 2 mm particles was tested on a TDM press at a
loading rate of 6 mm/min. Crystals of both sizes were tested for
microhardness. The vacuum heat treatment was done in a special
vacuum chamber which could sustain a temperature of 1200°C for an

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DDC: 646.281

L 8910-66

ACC NR AP5027595

indefinite time at a vacuum of not less than 10^{-3} mm Hg. The crystals were treated for 5, 10, 20, 50 and 100 hours at 1200°C. At the end of the treatment, simultaneously with determination of strength and microhardness, the weight loss was determined, and the surface of the crystals was observed photographically. Results are shown in a table and a series of figures. Results show that the shear fracture strength of crystals of black silicon carbide increases with an increase in treatment temperature. The most intensive rise in strength takes place at a treatment temperature above 900°C; after treatment at 1200°C, the crystals are approximately 20% stronger. The most intensive increase in mechanical strength of the crystals was observed for those crystals which contained the most impurities. The magnitude of this effect increases with an increase in temperature and duration of treatment. The observed loss in weight is due in part to the elimination, under vacuum, of contaminants such as calcium oxide, aluminum oxide, and free carbon, and partly to the process of decomposition of the silicon carbide into more volatile compounds such as Si, SiC_2 and Si_2O . To obtain the highest mechanical properties, there is no apparent reason to increase the duration of the treatment at 1200°C beyond 20 to 40 hours. It would be required to raise the temperature

Card 2/3

L 8910-66

ACC NR: AP5027595

ceiling above 1200°C and to create a higher vacuum. Orig. art.
has: 4 figures and 1 table.

SUB CODE: 07, 20/ SUMM DATE: 10Dec63/

OTH REF: 00-

ORIG REF: 007

OC
Card 3/3

1 20609-66 EWT(m)/EMP(e) WH
ACC NR: AP6010269

SOURCE CODE: UFR/0145/66/000/001/0.53/0157

AUTHOR: Savitskiv, K. V. (Doctor of physico-mathematical sciences; Professor);
Lyushchenkov, M. A. (Senior research associate); Butnakov, K. I. (Engineer);
Kiratova, L. V. (Engineer)

ORG: Siberian Institute of Engineering Physics (Sibirskii fiziko-tekhnicheskiy
institut)

TITLE: Vacuum firing of hard refractory compounds: *Alumina* 544

SOURCE: IVUZ. Mashinostroyeniye, no. 1, 1966, 153-157

TOPIC TAGS: aluminum oxide, aluminum oxide firing, sapphire firing, vacuum firing

ABSTRACT: The effect of vacuum firing on the properties of four grades of aluminum oxide, OKS₁, standard electrocorundum, white electrocorundum, and sapphire, has been investigated. Vacuum firing at 600-1200°C was found to increase the shear strength and microhardness and to bring about a weight loss. The magnitude of all three effects depended on the purity of aluminum oxide, and at a given purity on the firing temperature and time. For instance, firing at 1200°C for 5 hr almost doubled the shear strength of standard (low-purity) electrocorundum, increased its microhardness from 1790 to 1970 kg/mm², and brought about a weight loss of 10.7 mg. In white (high purity) electrocorundum, the same treatment increased the shear strength by 25% and the microhardness from 2200 to 2360 kg/mm², and caused a weight loss of

UDC: 669.013.4

Card 1/2

L 20602-66

ACC NR: AP6010269

47.8 mg. Sapphire, the purest grade of aluminum, underwent only insignificant changes in microhardness and shear strength. However, its resistance to aggressive media increased considerably after 100 hr firing at 1200°C, which is explained by a decrease in the dislocation density brought about by prolonged holding at 1200°C. [DV]
Orig. art. has: 5 figures and 2 tables.

SUB CODE: 11/ SUBM DATE: 10Dec63/ ORIG REF: 007/ OTH REF: 002/ ATD PRESS: 4226

Card 2/2 *lo*

6/27/73

IL'YUSHECHKIN, D.

UNION/Engineering
Efficiency, Industrial
Trailers

APR 30

"Competition for Improving Labor's Output," D.
Il'yushechkin, Maintenance Manager, "Sovuzgosttyum"
Crimean Trust, t p

"Avtomobil" No 4

Crimean Autobase drivers are competing with each
other in regard to best utilization of trailers.
Movement was started by Simferopol Autobase, whose
trailer utilization coefficient rose from 0.40 to
0.84 during 1947.

6/27/73

ILYUSHECHKIN, V.I.; TRIFONOV, I.M.

Anniversary heroes bear added obligations. Transp. stroi. 14
no.10:33 0 '64. (MIRA 18:3)

1. Nachal'nik Leningradskoy NIS Orgtransstroya (for Ilyushechkin).
2. Starshiy inzh. Leningradskoy NIS Orgtransstroya (for Trifonov).

U CHZHUAN-DA [Wu, Chuang-ta]; BUTENKO, M.A. [translator]; ILIUSHECHKIN,
V.P. [translator]; GLUSHAKOV, P.I., redaktor; PARTHEVSKIY, O.K.,
redaktor; BENEVA, M.A., tekhnicheskij redaktor

[Taiwan, Translated from the Chinese] Taiwan'. Peredov so vtorogo
kitaiskogo izdaniia M.A.Butenko i V.P.Iliushechkin. Red. P.I.
Glushakova. Moskva, Izd-vo inostrannoi lit-ry, 1955. 66 p.
(MIRA 9:10)
(Formosa)

LYU SHI-TSI [Liu, Shih-Ch'i]; ILYUSHCHIKIM, V.P. [translator]; MIBRENT',
B.A. [translator]; OVDYEMKO, I.Kh. [translator]; TIRKET'EVA,
V.P. [translator]; VARENITS, Ye.T., red.; APANAS'YEVSKIY, Ye.A.,
red.; IOVLMVA, N.A., tekhn. red.

[Agricultural geography of China] Geografija sel'skogo khoziaistva
Kitajs. Vselup. stat'sja i red. E.T. Varenitsa. Moscow, Izd-vo
inostr. lit-ry, 1957. 402 p. (MIRA 11:10)
(China--Agriculture)

PAGE 2 BOOK EXPLORATION

SOV/4893

Vsesoznaniye sovetskikh po fizike, fiziko-khimicheskikh i fizicheskikh ocheredey
ferritov i fizicheskikh ochenyayushchikh ikh prizemnyia. 30. Minsk, 1959.

Ferrity. Fizicheskye i fiziko-khimicheskkiye svoystva. [Fizicheskaya i
(Ferrity) Fizicheskaya i fiziko-khimicheskaya svoystva. Dokladny
(Ferrity) Fizicheskaya i fiziko-khimicheskaya svoystva. Reporta]
Minsk, Izd-vo AN BSSR, 1960. 655 p. Kresta slipp inserted.
1,000 copies printed.

Sponsoring Agency: Nauchnyy sovet po magnetizmu AM SSSR. Otdel
fiziki tverdogo tela i poluprovodnikov AM SSSR.

Editorial Board, Resp. Ed.: N. N. Sirota, Academician of the
Academy of Sciences USSR; K. P. Belov, Professor; Yu. I. Kononov,
Professor; K. N. Polivanov, Professor; R. V. Tsvetan, Pro-
fessor; G. A. Smirnov, Professor; R. N. Shol'tsa, Candidate of
Physical and Mathematical Sciences; E. M. Solyarenko; Tech.
L. A. Bashkov; Ed. of Publishing House: A. Kholyavtsev; Tech.
Sc. I. Volobanova.

Publisher: This book is intended for physicists, physical chemists,
radio electronics engineers, and scientific personnel engaged in
the production and use of ferrimagnetic materials. It may also
be used by students in advanced courses in radio electronics,
physics, and physical chemistry.

Coverage: The book contains reports presented at the Third All-
Union Conference on Ferrites held in Minsk, Belorussian SSR.
The papers deal with magnetic transformations, electrical and
galvanomagnetic properties of ferrites, studies of the growth
of ferrite single crystals, problems in the chemical and physi-
cochemical analysis of ferrites, studies of ferrites having
rectangular hysteresis loops and multicurrent ferrite systems
exhibiting spontaneous rectangularity, problems in magnetic
attractation, highly coercive ferrites, magnetic spectroscopy,
ferromagnetic resonance, magneto-optics, physical principles of
using ferrite components in electrical circuits, anisotropy of
electrical and magnetic properties, etc. The Committee on Mag-
netism of USA (J. V. Tonderick, Chairman) organized the con-
ference. References accompany individual articles.

SOV/4893
Ferrites (cont.)

Bogolyubov, B. Ya. The Selection of Ferrites With Rectangular
Hysteresis Characteristics For Quiet-Acting Systems 637

Chubarev, V. N., Sh. Yu. Semenov, and L. P. Lopatin. 643
Pulse Generator for Studying Ferrites

El'yanovich, L. P. and K. N. Shol'tsa. The Ferrite-Based
Memory Device of the Electronic Computer of the Academy
of Sciences, Mathematics, 655

AVAILABLE: Library of Congress (23353. V75)

2/8/19/ce
Soviet T-1 MSSC
Card 18AB

IL'YUSHENKA, L. F.

SVIRSHCHINSKAYA, M.M.; IL'YUSHENKA, L.F.

Magnetic defectoscopy of cutting tools. Vestn AI BSSR no.1:
98-103 Ja-F 52.
(Cutting tools) (Metallography)

IL'YUSHENKO, L.F.

SVIRSHCHEVSKAYA, M.M.; IL'YUSHENKO, L.F.; TALAKO, G.S.

Magnetic control of hollow steel cylinders on deep hole drilling
machines. Sbor.nauch.trud.Fiz.-tekhn.inst.AN BSSR no.1:162-166'54.
(MLRA 10:1)

(Magnetic testing) (Cylinders)
(Machinery industry—Quality control)

IL'YUSHENKO, L. F.

"Study of Magnetic Fields of Scattering Produced by Defects of Cylindrical Form".

Sb. Nauch. Tr. Fiz. in-ta AN Bel SSR, No 1, pp 171-183, 1954

Measurements are made of the normal and tangential components of a magnetic field over the side of a steel rod magnetized along its length, in which cross-section apertures were drilled at various depths below the tested side. Empirical formulas are suggested for evaluation of the depth and size of the embedded defects by noting the distortion of the magnetic field over the finished product. (RZhFiz, No 10, 1955)

SO: Sum No 812, 6 Feb 1956

30106
S/194/61/000/007/010/079
D201/D305

9.7140

AUTHORS:

I.I'yushenko, L.F. and Sheleg, M.U.

TITLE:

Ferrite memory of the electronic computer of the
AS Belorussian SSR

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika,
no. 7, 1961, 15, abstract 7 B98 (V sb. Ferrity. Fiz.
i fiz.-khim. svoystva, Minsk, AN BSSR, 1960, 645-652)

TEXT: The magnetic memory of the computer described utilizes the linear number selection method (method z). The ferrite memory cores perform not only the function of memorizing binary information, but are used as impulse sampling and pulse registration forming circuits. The duration of one cycle is 8 microseconds. The memory control circuit consists of standard computer circuits (trigger, gate) and of the basic following circuits gate-producing read-out pulses, storage gate, amplifier for the read-out signal which excites the magnetic decoder, produces recording of information, amplification

Card 1/2

USSR/Physics - Magnetization

FD-2970

Card 1/1 Pub. 146 - 11/28

Author : Drokin, A. I.; Il'yushenko, V. L.

Title : Influence of the method of demagnetization of specimen upon the temperature dependence of magnetizability of nickel in weak fields

Periodical : Zhur. eksp. i teor. fiz., 29, September 1955, 339-344

Abstract : The authors investigate by two different methods the influence of the procedure of demagnetization of a specimen upon the temperature behavior of the intensity of magnetization of nickel in weak magnetic fields. He concludes that demagnetization by an alternating current decreasing uniformly to zero creates a definite texture of antiparallel oriented spin moments which causes a difference in the temperature behavior of nickel's intensity of magnetization, such a texture ensuring predominantly longitudinal inversion occurring in weaker fields than transverse inversion does. Ten references: e.g. V. F. Ivlev, Izv. AN SSSR, Ser. fiz., 16, 664, 1952.

Institution : Krasnoyarsk State Pedagogic Institute

IL'YUSHENKO V.

IL'YUSHENKO, V. L.

"Influence of Temperature upon the Number and Magnitude of Irreversible
Leaps in Remagnetization of Iron." Min Education RSFSR, Moscow Oblast
Pedagogic Inst, Moscow, 1955. (Dissertation for the Degree of Candidate
of Mathematical Sciences.)

SO: M-972, 20 Feb 56

Ilyushenko, V. L.

R ✓ Effect of the method of demagnetization of the sample on
the temperature coefficient of the magnetic susceptibility
of nickel in weak fields. A. I. Brogin and V. L. Il'yushen-
ko. Sov. Phys., JETP 1, 191-6 (1959) (Review).—See C.A. 50, 9340.

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000618520020-7

ILYUSHENKO, V. L., IVLEV, V. F., ASEYeva, L. S., and LIPKIN, A. B. (Krasnoyarsk)

"The Study of Irreversible Jumps of Magnetic Reversal in Ferromagnetic Substances," paper presented at the International Conference on Physics of Magnetic Phenomena, Sverdlovsk, USSR, 23-31 May 1956.

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000618520020-7"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618520020-7

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618520020-7"

IL'YUSHENKO, V. L.

Ivlev, V. F., Il'yushenko, V. L., Asyeyeva, L. I. 48-9-10/26

AUTHORS:

TITLE:

PERIODICAL:

An Investigation of the Irreversible Bounds of Magnetization
in Ferromagnetica (Issledovaniye neobratimykh skachkov perenag-
nichivaniya v ferromagnetiakakh).

Izvestiya AN SSSR Seriya Fizicheskaya, 1957, Vol. 21, Nr 9,
pp. 1250-1254 (USSR.).

ABSTRACT:

The purpose of the present paper was 1) to investigate the problem, whether the Law established by one of the authors, saying that the number of bounds and their magnitude is decreasing according to an exponential law at a temperature rise, holds for ferromagnetica in general or only for nickel. 2) to perform an experimental investigation of the dependence of the number and of the magnitude of the bounds on the crystallographic ordering and its temperature dependence. It is shown, that the number of reversal bounds is essentially dependent upon the crystallographic direction, which means, that there exists a considerable anisotropy of the number of bounds. The minima and maxima of the number of bounds of all dimensions correspond to the identical crystallographic direction. It is shown, that in the case of a monocrystal sample of silicious iron the number of bounds is essentially de-

Card 1/2

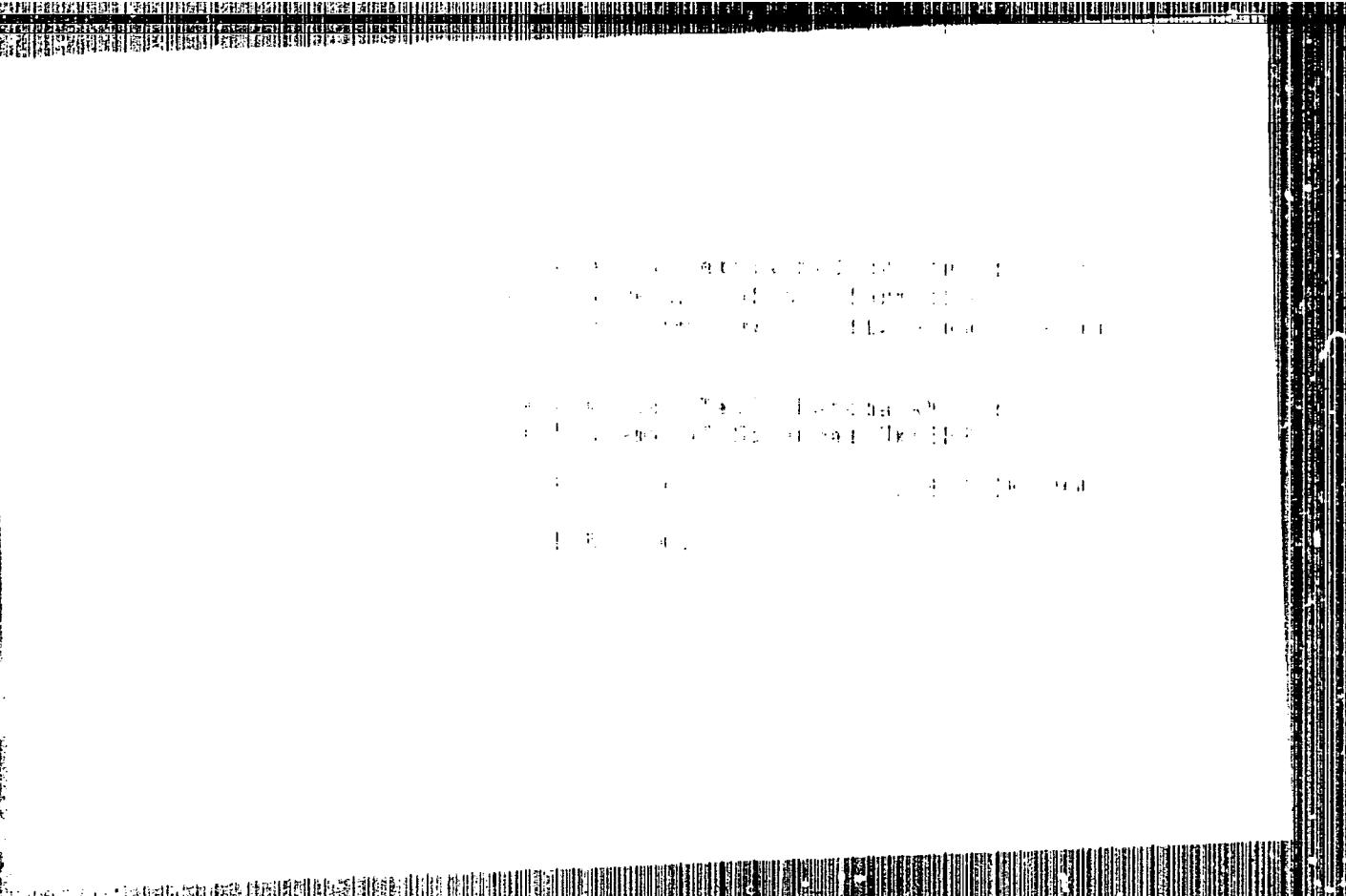
"APPROVED FOR RELEASE: 04/03/2001

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CIA-RDP86-00513R000618520020-7"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618520020-7



APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618520020-7"

ILYUSHIKIN, N. I.

Prevention of epidermophytosis in an army unit. Vest.derm. i vse.
32 no.3:73-76 My-Je '58 (MIRA 11:7)
(RINGWORM, prev. & control
in army units (Rus))
(ARMED FORCES PERSONNEL, dis.
athletes foot, prev. (Rus))
(FOOT, dis.
ringworm, prev. in armed forces personnel (Rus))

BAYRAMOV, M., insh.; IL'YUSHIN, A., insh.

Conveyer line for processing unskinned hog heads. Mias.ind.SSSR
(MIRA 13:8)
31 no.2:18-19 '60.

1. Bryanskij myasokombinat.
(Swine)

BAYRAMOV, M.; IL'YUSHIN, A.

Modernising machines for removing hides. Mias, Ind. USSR
31 no.5:40-41 '60. (MIRA 1):9)

1. Bryanskiy myasokombat (for Il'yushin).
(Hides and skins) (Bryansk—Slaughterhouses)

BAYRAMOV, M.; IL'YUSHIN, A.

Stepping up the production rates. Mias.ind. SSSR 33 no.3:12-14 '62.
(MIRA 15:7)

1. Bryansk myasokombinat.
(Briansk—Meat industry)

IL'YUSHIN, A.A.

K voprosu o poperechnykh kolebaniakh i prodol'noi ustoichivosti sterzhnei peremennogo secheniya. (Moscow. Universitet. Uchenye zapiski, 1937. v.7. Mekhanika. p. 267-268)

Summary in English.

Title tr.: On the question of transverse vibration and longitudinal stability of rods with variable cross-sections.

Q:60.M868 1937, v.3

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000618520020-7

IL'YUSHIN, A. A.

"Viscous-Plastic Flow of Material," Trudy Konferentsii po Plasticheskim Deformatsiyam, AS USSR, 1938

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000618520020-7"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618520020-7

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IL'YUSHIN, A. A.

IL'YUSHIN, A. A.
Nekotorye voprosy teorii plasticheskikh deformatsii. (Priljadnaja matematika i mehanika, 1943, v. 7, no. 4, p. 245-272, diagrs., bibliography)

Summary in English.

Title tr.: Some problems in the theory of plastic deformations.

QA801. P7 1943

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of
Congress, 1955.

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Priblizhennaya teoriya uprugo-plasticheskikh deformatsii osesimmetricheskoi obolochki. (Prikladnaya matematika i mehanika, 1944, v. 8, no 1, p. 15-24)

Title tr.: Approximate theory of elastic-plastic deformations of shells with axial symmetry.

QA801.Y7 1944

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

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Ustoichivost' plastinok i obolochki za predelom uprugosti. (Prikladnaia matematika i mekhanika, 1944, v. 8, no. 5, p. 337-360)

Summary in English.

Title tr.: Stability of plates and shells beyond the proportional limit.

QA801.P7 1944

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

IL'YUSHIN, A. A.

Konechnoe sootnoshenie mezhdu silami i momentami i svyazikh s deformatsiyami v teorii obolochek. (Prikladnaia matematika i mekhanika, 1945, v. 9, no. 1, p. 101-110, diagrs.)

Summary in English.

Title tr.: A finite relation between the forces and moments and their connection with the deformations in the theory of shells.

QA801. F7 1945

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

H. T. & M. R.

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Sviaz' mezhdu teoriei Sen Venana - Levi - Misesa i teorii malykh uprugich plasticheskikh deformatsii. (Prikladnaia matematika i mehanika, 1945, v. 9, no. 3, p. 207-218, dia. rs.)

Summary in English.

Title tr.: Relation between the theory of Saint Venant - Levy - Mises and the theory of small elastic-plastic deformations.

QA801.P7 1945

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

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strategies to men under starting the matching of the characteristic
plate. Simplifying and extending his earlier results (same
Journal, 8, 1977) he has shown that the author's
strategy is best if the number of nodes in the graph is large enough.
In this case the probability of finding a node with a given
definition and the other function, by a product of binomials
is approximately equal to one. In this case the probability of finding a node with a given
definition and the other function, by a product of binomials
is approximately equal to one.

B
The Deformation of a Visco-Plastic Solid. A. A. Il'yushin. 149 pages. 1947. Graduate Division of Applied Mathematics, Brown University, Providence, R.I. (Translation RMB-21.) From Uchebnyye Zapiski Moshkovskogo Gouudarstvennogo Universiteta, Marksistskaya, 1940, p. 1. N.I.

The first chapter presents the general theory of deformations of a visco-plastic body. The second, third, and fourth chapters are devoted to a new problem concerning the stability of the deformation of a visco-plastic body and to a study of its neighboring motions. The fifth chapter deals with the problem of the compression of a cylindrical sample due to a blow. It also briefly presents the results of a considerable number of experiments performed on cylindrical samples at the materials testing laboratory of the Moscow State University.

ASA-SLA METALLURGICAL LITERATURE CLASSIFICATION

